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Matt Pharr, Pat Hanrahan
July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(922.18 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a new mathematical framework for solving a wide variety of rendering problems based on a non-linear integral scattering equation. This framework treats the scattering functions of complex aggregate objects as first-class rendering primitives; these scattering functions accurately account for all scattering events inside them. We also describe new techniques for computing scattering functions from the composition of scattering objects. We demonstrate that solution techniques base ...

Keywords: Chandrasehkar's equation, Monte Carlo techniques, adding equations, equation of transfer, illumination, invariant imbedding, principles of invariance, reflectance and shading models, rendering, scattering function

2 Efficient decomposition and performance of parallel PDE, FFT, Monte Carlo simulations, simplex, and sparse solvers
Zarka Cvetanovic, Edward G. Freedman, Charles Nofsinger
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**
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In this paper, we describe the decomposition of six algorithms: two Partial Differential Equations (PDE) solvers (*Successive Over-Relaxation* (SOR) and *Alternating Direction Implicit* (ADI)), Fast Fourier Transform (FFT), Monte Carlo simulations, Simplex linear programming, and Sparse solvers. The algorithms were selected not only because of their importance in scientific applications, but also because they represent a variety of computational (structured to irregular) and communicat ...

3 Implementation of a hypersonic rarefied flow particle simulation on the connection machine
L. Dagum
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